PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000054925			FOR FURTHER ACTION See Form			See Form PCT/IPEA/416	
International application No.			International filing da	, ,	month/year)	Priority date (day/month/year)	
PCT/EP2004/010492			18.09.200	4		26.09.2003	
	International Patent Classification (IPC) or national classification and IPC . C09K15/20 C07B63/04 C07C7/00						
Applicant BASF Aktiengesellschaft							
1.				ninary examination re e applicant according t			nternational Preliminary Examining Authority
2.	This R	EPORT consis	ts of a total of	7		sheets, including	g this cover sheet.
3.	This re	eport is also acc	ompanied by A	NNEXES, comprising:			
	a. >	(sent to th	e applicant and	to the International Bu	<i>ireau)</i> a 1	total of 5	sheets, as follows:
		shee shee	ts of the descrip	tion, claims and/or dra	wings w	hich have been a	mended and are the basis for this report and/or le 70.16 and Section 607 of the Administrative
			lisclosure in the				siders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental
	ь. [7		Bureau only) a total of	(indicate	type and number	r of electronic carrier(s))
	_	-		•			, containing a sequence listing and/or tables
				readable form only, a rative Instructions).	ıs indicat	ted in the Suppler	mental Box Relating to Sequence Listing (see
4.	This re	eport contains i	ndications relati	ng to the following iter	ns:		
	\boxtimes	Box No. I	Basis of the	report			
	\sqcup	Box No. II	Priority				
	Ш	Box No. III	Non-establi:	shment of opinion with	n regard t	o novelty, inventi	ive step and industrial applicability
		Box No. IV	Lack of unit	ty of invention			
	\boxtimes	Box No. V		atement under Article a d explanations supporti		_	ty, inventive step or industrial applicability;
		Box No. VI	Certain doc	uments cited			
		Box No. VII	Certain defe	ects in the international	applicat	ion	
	\boxtimes	Box No. VIII	Certain obse	ervations on the interna	ational ap	pplication	
Date of submission of the demand			Date of	completion of thi	s report		
Name and mailing address of the IPEA/EP			Authori	zed officer			
Facsimile No.			Telepho	one No.			

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International application No.

PCT/EP2004/010492

Box	No. I	Basis of the report		
1.		h regard to the language, this report is based on the internat cated under this item.	ional application in the language in	which it was filed, unless otherwise
		This report is based on translations from the original lang which is the language of a translation furnished for the pu international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.1)	rposes of:	·
		international preliminary examination (Rule 55.2 and	nd/or 55.3)	
2.	rece	h regard to the elements of the international application, the viving Office in response to an invitation under Article 14 report): the international application as originally filed/furnished the description:		
		pages 1-34		as originally filed/furnished
		pages*	received by this Authority on	
		pages*	received by this Authority on	
	\boxtimes	the claims:		
		nos.		as originally filed/furnished
		nos.*	as amended (togethe	er with any statement) under Article 19
		nos.* _ 1-21	received by this Authority on	13.05.2005 with letter of 12.05.2005
		nos.*	received by this Authority on	
		the drawings:		
		sheets		as originally filed/furnished
		sheets*		
		sheets*		
		a sequence listing and/or any related table(s) – see Supple		
3.	П	The amendments have resulted in the cancellation of:		•
٠.				
		the claims, nos. the drawings, sheets/figs		_
4.		This report has been established as if (some of) the ame they have been considered to go beyond the disclosure as	ndments annexed to this report and	l listed below had not been made, since
		the description, pages		
		the claims, nos.		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "su	iperseded."	

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement	•	· · · · · · · · · · · · · · · · · · ·	
	Novelty	(N)	Claims 1-21 Claims	YES NO
Inventive step (IS)		e step (IS)	Claims 1-21 Claims	3.70
Industrial applicability (IA)		l applicability (IA)	Claims 1-21 Claims	
2.	Citations and	d explanations (Rule 70	0.7)	
		Reference	is made to the following documents:	
			-2 226 066 (RHONE POULENC CHIMIE)	
			ine 1990 (1990-06-20)	
			99 20 796 A (ROEHM GMBH) 9 November 2000 0-11-09)	
	1.1)	Documents	D1 and D2 are considered the prior art	
		closest to	the subject matter of claims 1 and 19.	
		Document D	Ol discloses a method for stabilising	
		(see the a	abstract) polymerisable compounds with	
		respect to	polymerisation when used in	
		compositio	ons which are stored and transported (see	
		page 1, li	ne 1 to page 2, line 6; page 5, lines 13	
		- 18 and p	page 9, lines $1 - 8$), characterised by	
		the use of	at least one radical interceptor that	
		contains a	at least two glycine units (e.g.	
		nitrilotri	acetic acid, N-(2-	
		hydroxyeth	nyl)ethylenediaminetriacetic acid; see	
		page 4, li	nes 16 - 26).	
	1.2)	D1 also di	scloses stabiliser mixtures which	

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	contain a radical interceptor that contains at
	least two glycine units, a further stabiliser and
	a polymerisable compound (see the abstract,
	claim 1, and page 4, lines $16 - 26$).
1	

1.3) D1 also discloses the use of the mixtures for stabilising polymerisable compounds with respect to polymerisation during storage and/or transport (see page 1, line 1 to page 2 line 6; page 5, lines 13 - 18 and page 9, lines 1 - 8).

Document D1 does not disclose any compounds that contain at least two glycine units and at least one amide and/or ester unit.

The subject matter of claims 1 and 19 is therefore considered novel over D1.

- 2.1) Document D2 discloses a method for stabilising polymerisable compounds during the production thereof (see claim 1) and during the preparation thereof (see claim 8 and example 1), characterised by the use of a radical interceptor that contains at least two glycine units (e.g. nitrilotriacetic acid, N-(2-hydroxyethyl)ethylenediaminetriacetic acid; 3,6-dioxaoctamethylenedinitrilotetraacetic acid (see claim 6)).
- 2.2) D2 also discloses stabiliser mixtures which contain a radical interceptor that contains at least two glycine units, a further stabiliser and a polymerisable compound (see claims 1 and 6).

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2.3) D2 further implicitly discloses use of the mixtures for stabilising polymerisable compounds with respect to polymerisation during preparation (see claim 8 and example 1).

Document D2 does not disclose any compounds that contain at least two glycine units and at least one amide and/or ester unit.

The subject matter of claims 1 and 19 is therefore considered novel over D2.

3.1) The subject matter of claims 1 and 19 thus differs from that known from D1 and D2 in that the stabilising compounds also contain at least one amide and/or ester unit.

The current invention therefore addressed the problem of providing an alternative method for stabilising polymerisable compounds with respect to polymerisation during the preparation, storage and/or transport thereof (page 2, lines 12 - 14), by using alternative compounds that contain at least two glycine units and at least one amide and/or ester unit.

There is nothing in the prior art to suggest choosing such compounds from the compounds containing at least two glycine units.

The subject matter of claims 1 and 19 is therefore

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	considered inventive in relation to the prior art.
3.2)	Claims 2-18 are dependent on claim 1 and claims 20
	and 21 are dependent on claim 19 and therefore
	likewise meet the PCT requirements for novelty and
	inventive step.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Clarity

4) Claim 2 is unclear. According to claim 1, compounds of formula (I) should contain at least two glycine units. Since R7 and R8 may not be hydrogen and since n and k are not necessarily 1, the presence of two glycine units is guaranteed only when R1 and R2 are hydrogen.

However, according to claim 2, R1 and R2 may also be groups other than hydrogen.